

Colorado River Commission of Nevada

Natural Resources Group Hydrologic Update June 10, 2014



Unregulated Inflow



Unregulated Inflow Into Lake Powell

As of June 9, 2014

	MAF*	% Avg**
• WY 2014 (forecasted):	10.78	99%
• April-July 2014 (forecasted):	7.55	105%
• May (observed):	2.08	89%
• June (forecasted):	3.50	131%

*MAF=Million Acre-Feet

**30-year average, from 1981-2010 (current normal)



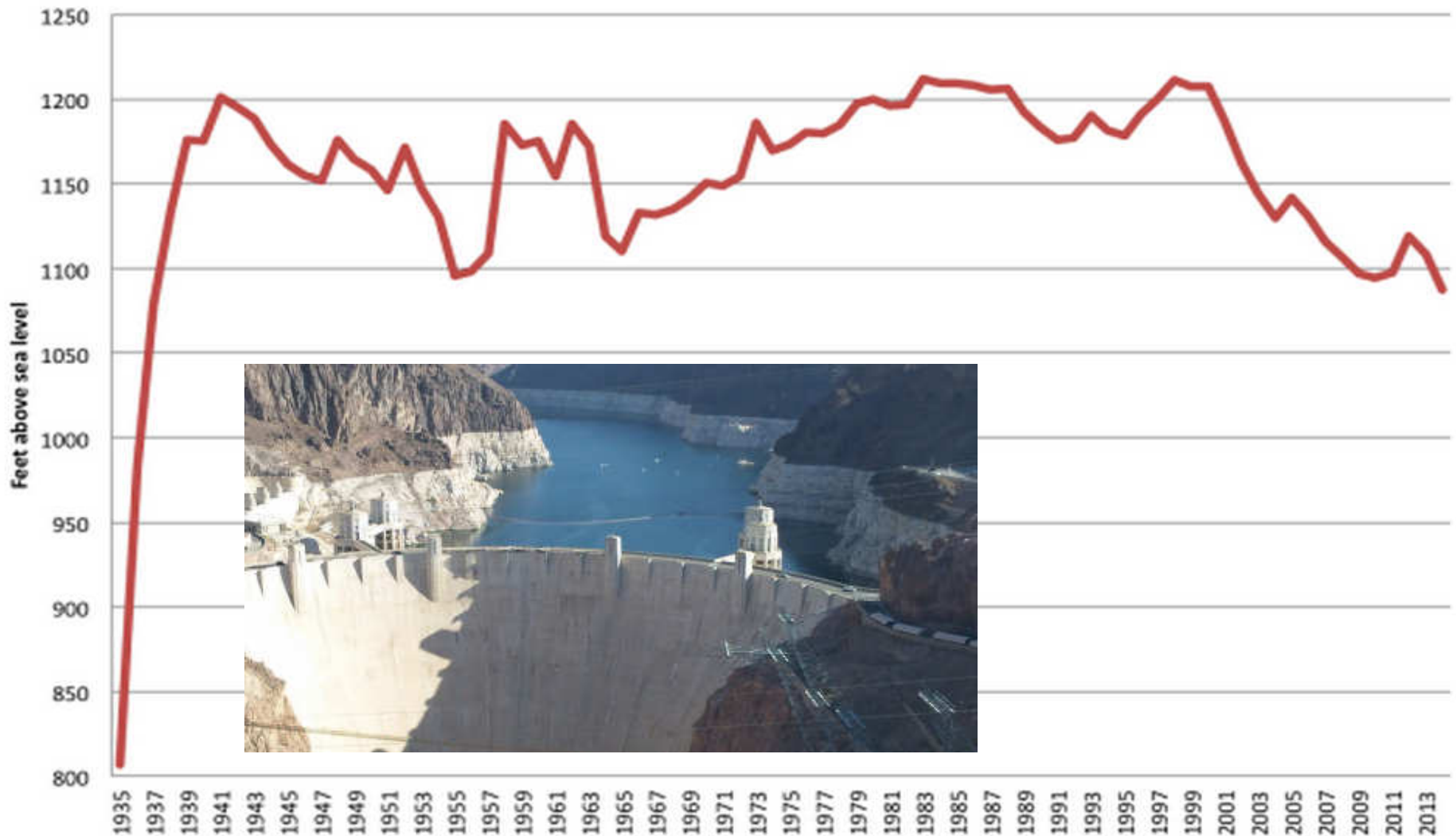
Storage Conditions

As of June 9, 2014

		<u>Percent of Capacity</u>	<u>Δ from last year</u>
Lake Mead elev.	1086.34 ft	40%	↓ 21.85 ft
Lake Powell elev.	3,597.46 ft	47%	↓ 2.75 ft
Total System Storage (6/2014)	29.81 maf	50%	↓ 1.36 maf
Total System Storage (6/2013)	31.17 maf	52%	



Lake Mead water level at Hoover Dam (Annual measurements as of June 1st)



Lake Mead water levels have never been this low in June—currently at 1087 feet. The spike on the left is when Lake Mead was still being filled, just after the construction of Hoover Dam in the 1930s.

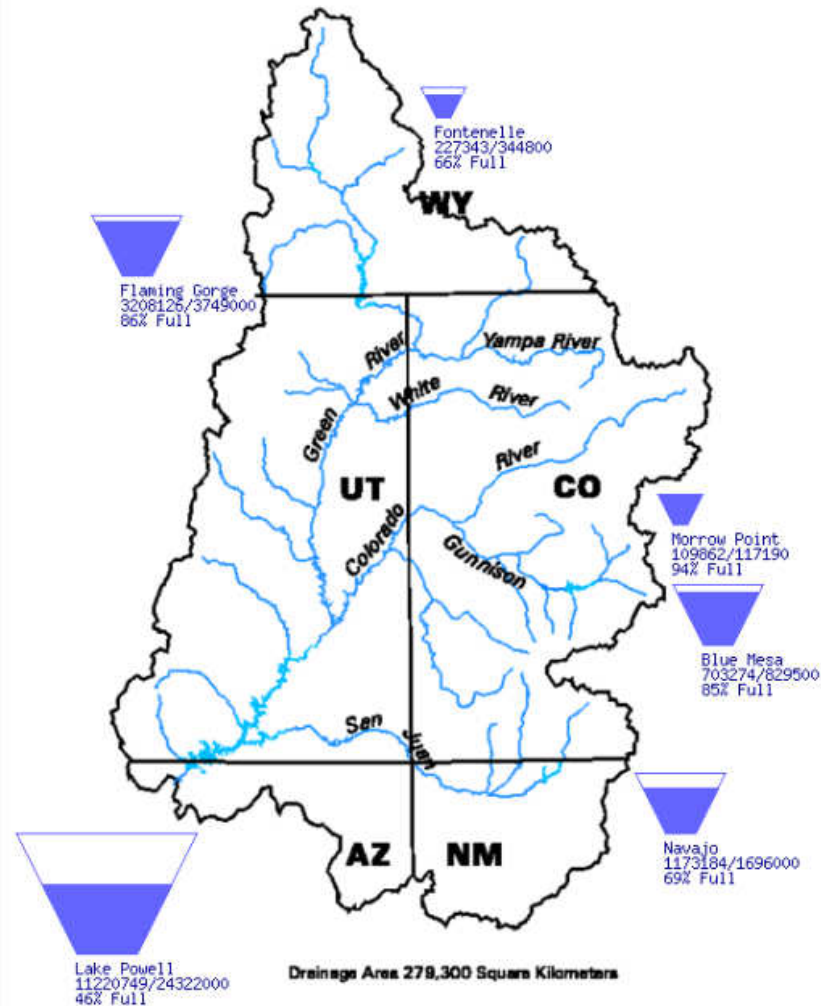
Data provided by USBR

Reservoir Storage

As of June 5, 2014

Data Current as of:
06/05/2014

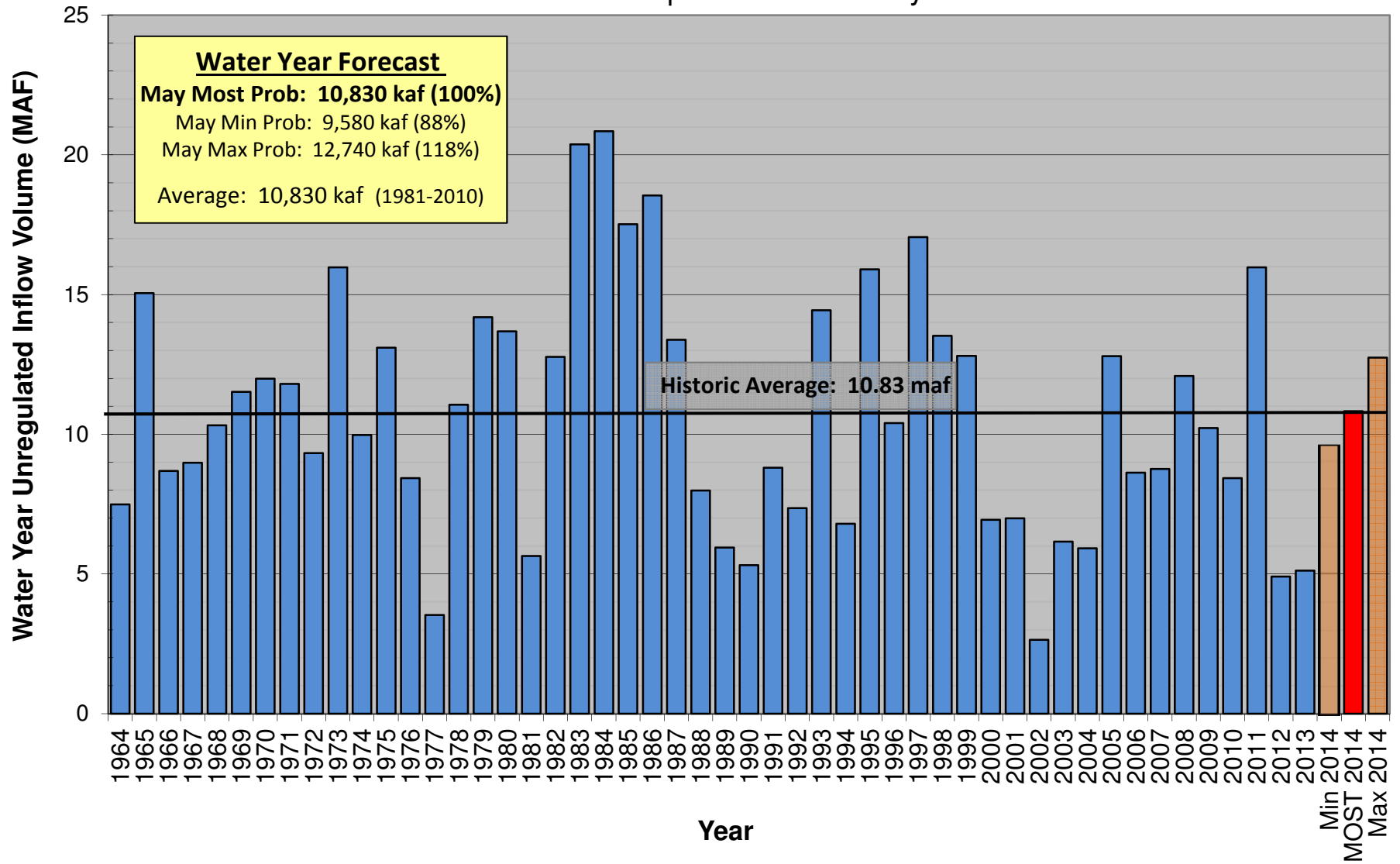
Upper Colorado River Drainage Basin



Lake Powell Unregulated Inflow

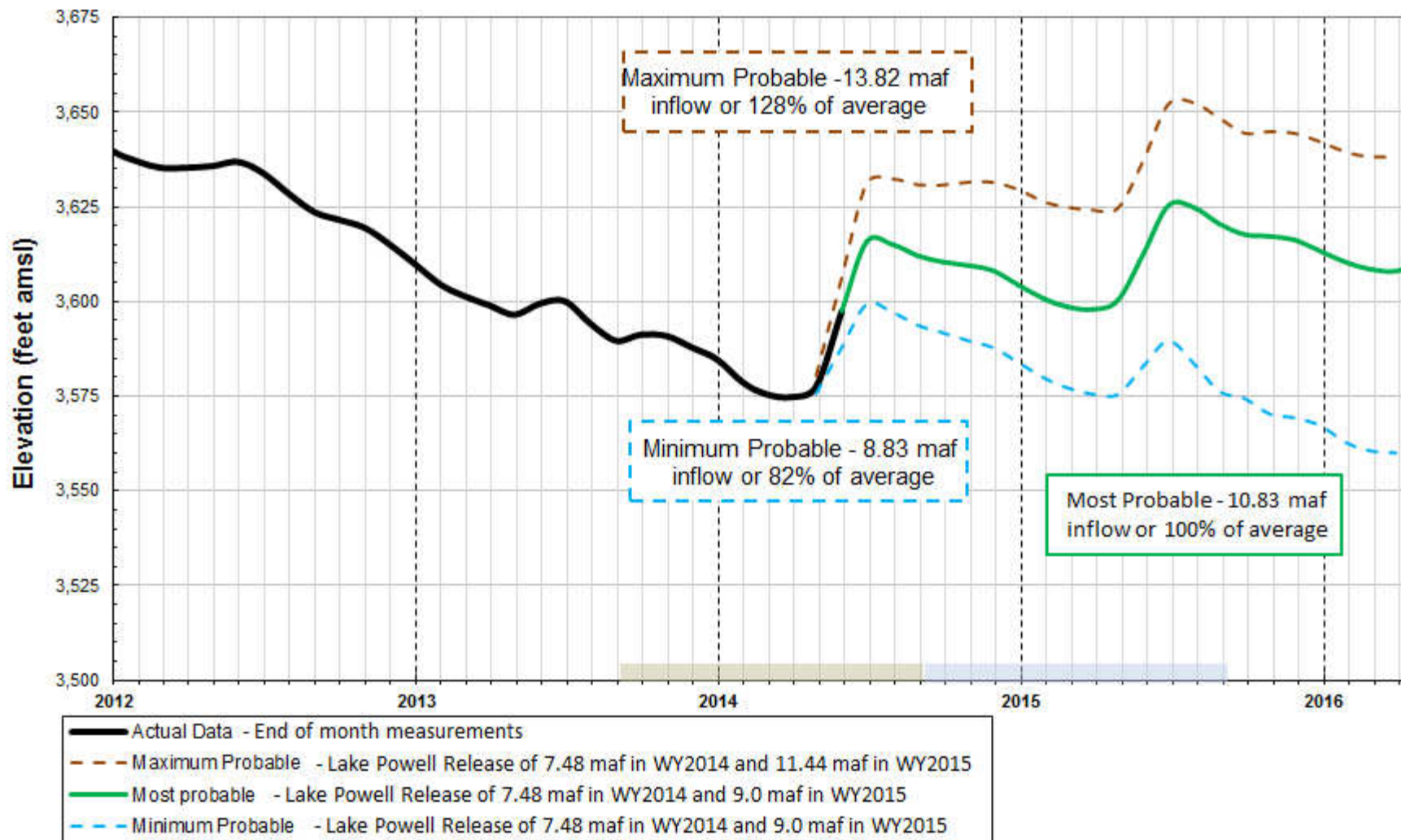
Water Year 2014 Forecast *(issued May 2)*

Comparison with History



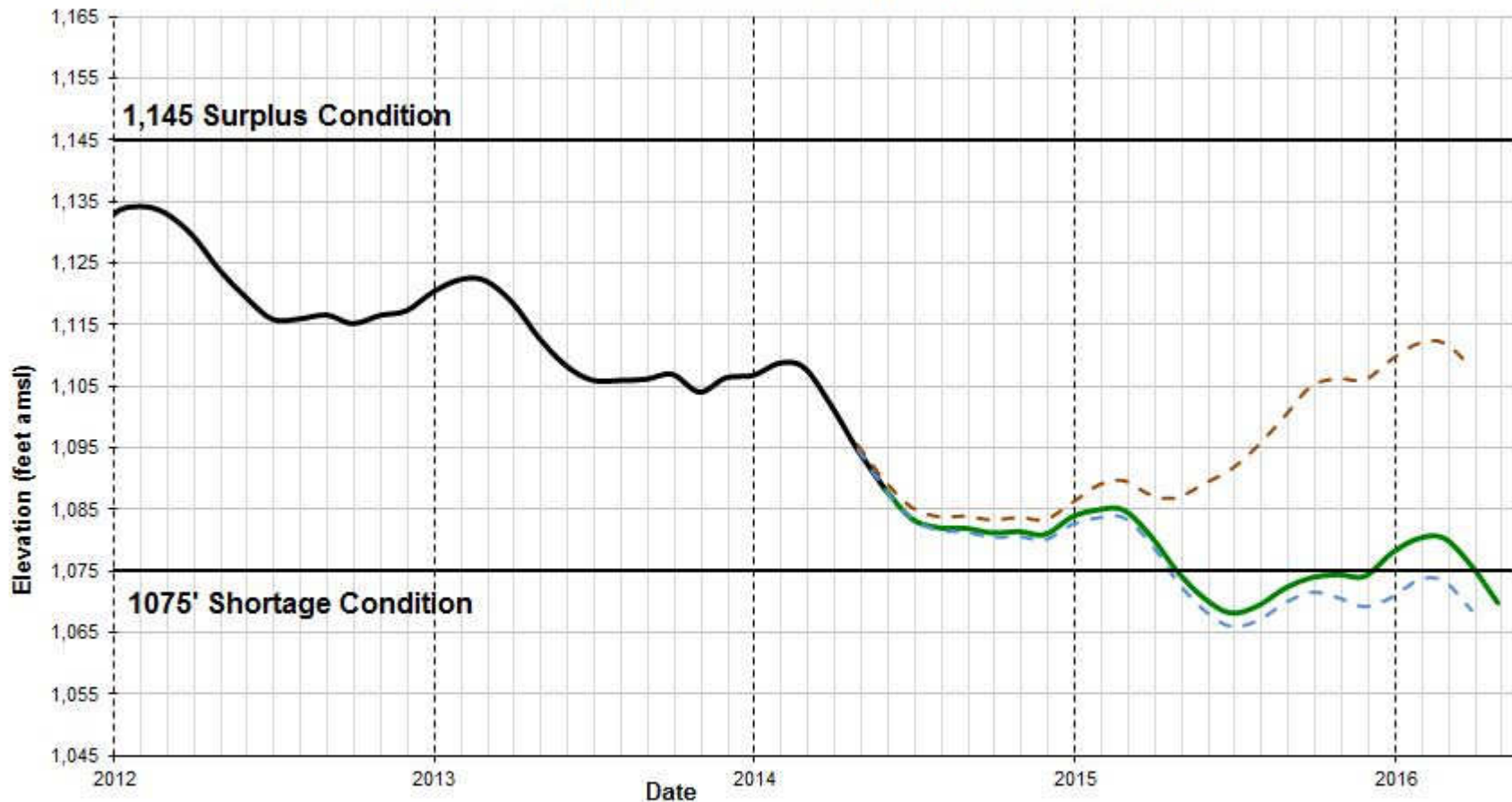
Lake Powell End of Month Elevations

(based on MAY 2014 24-month Study)



Lake Mead End of Month Elevation Projections

(Projections based on the May 2014 24-month study)



- Actual Data - End of month measurements
- - - Maximum Probable - Lake Powell Release of 7.48 maf in WY2014 and 11.44 maf in WY2015
- Most probable - Lake Powell Release of 7.48 maf in WY2014 and 9.0 maf in WY2015
- - - Minimum Probable - Lake Powell Release of 7.48 maf in WY2014 and 9.0 maf in WY2015

Drought and Precipitation



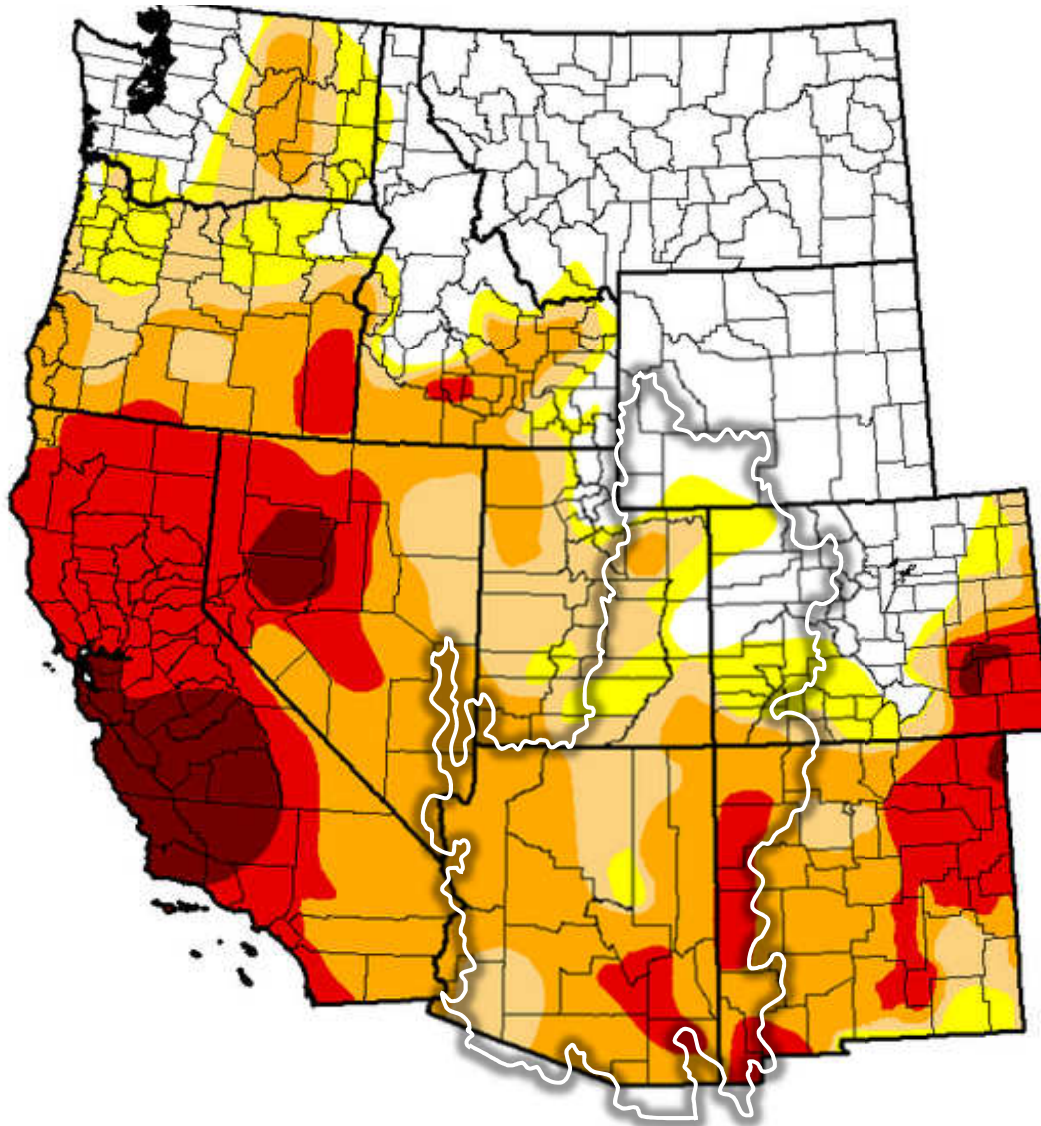
U.S. Drought Monitor

West






May 27, 2014

(Released Thursday May 29, 2014)

Valid 8 a.m. EDT



Intensity:

-  D0 - Abnormally Dry
-  D1 - Moderate Drought
-  D2 - Severe Drought
-  D3 - Extreme Drought
-  D4 - Exceptional Drought

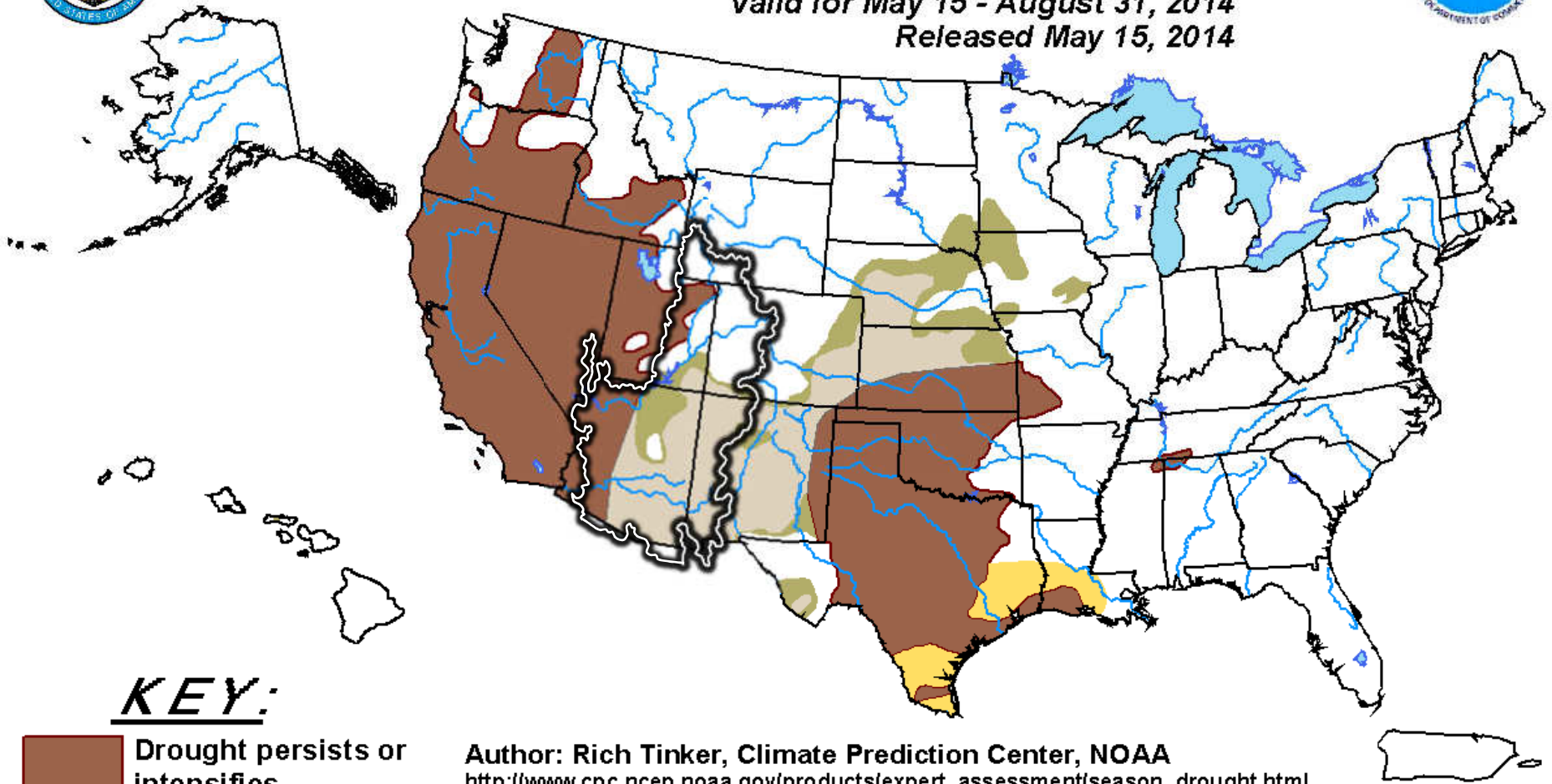


U.S. Seasonal Drought Outlook


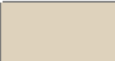


Drought Tendency During the Valid Period

Valid for May 15 - August 31, 2014

Released May 15, 2014



KEY:

-  Drought persists or intensifies
-  Drought remains but improves
-  Drought removal likely
-  Drought development likely

Author: Rich Tinker, Climate Prediction Center, NOAA

http://www.cpc.ncep.noaa.gov/products/expert_assessment/season_drought.html

Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Short-term events -- such as individual storms -- cannot be accurately forecast more than a few days in advance. Use caution for applications -- such as crops -- that can be affected by such events. "Ongoing" drought areas are approximated from the Drought Monitor (D1 to D4 intensity).

For weekly drought updates, see the latest U.S. Drought Monitor.

NOTE: The tan areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period although drought will remain.

The Green areas imply drought removal by the end of the period (D0 or none)

Precipitation – Colorado River Basin

As of June 9, 2014

Upper Colorado Basin

WY Precip to Date

98% (23.5")

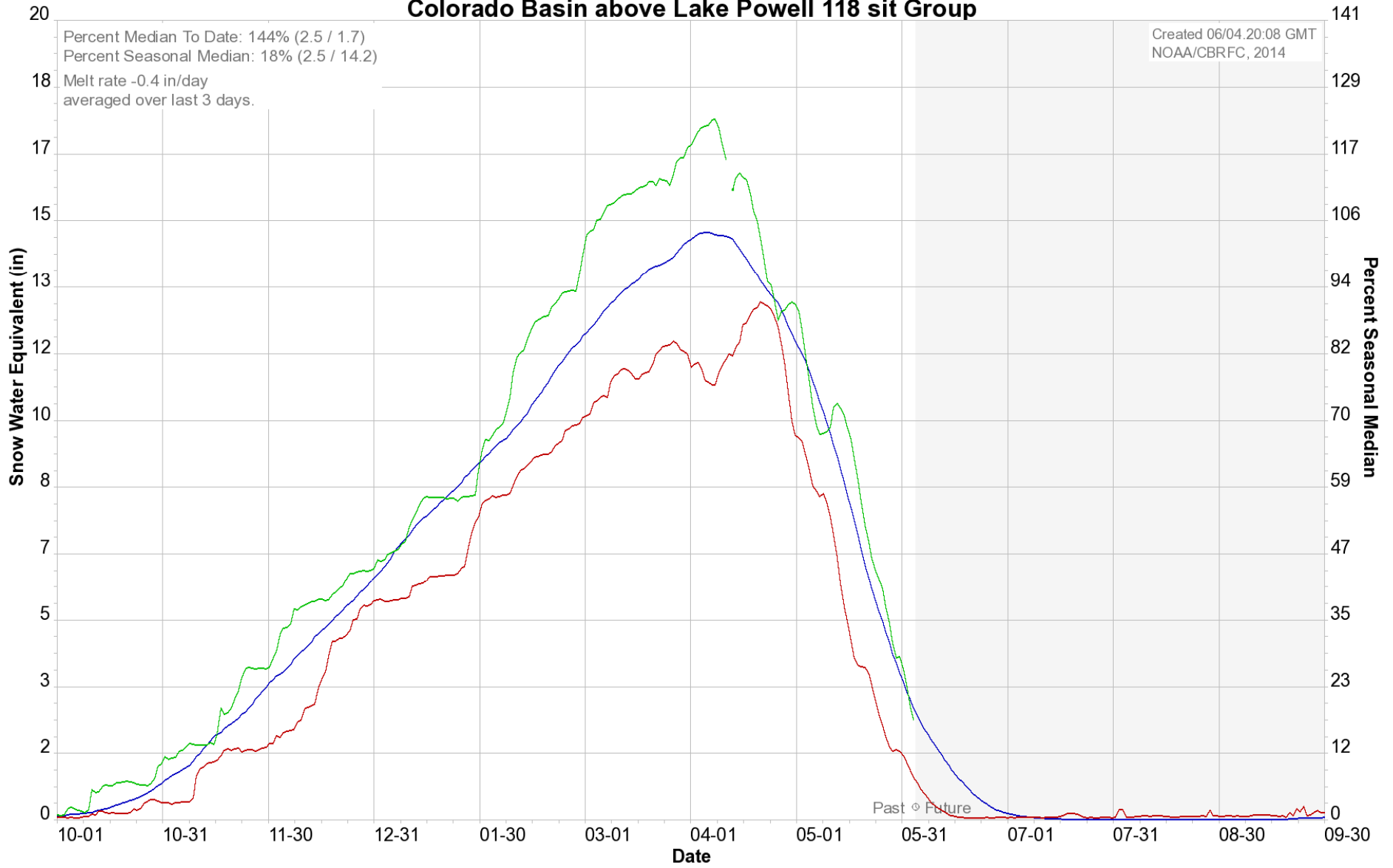
Current Basin Snowpack

NA

(Avg 1981-2010)



Colorado Basin River Forecast Center Colorado Basin above Lake Powell 118 sit Group

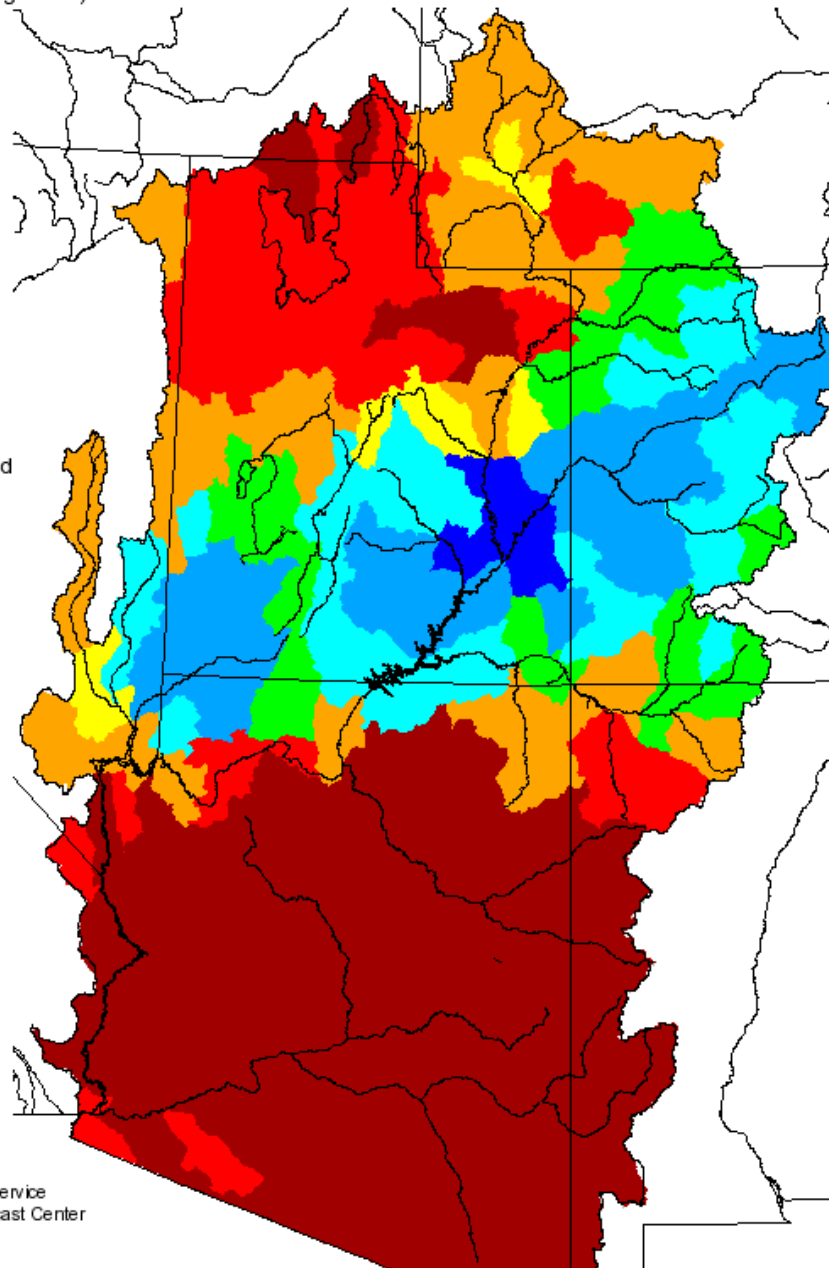
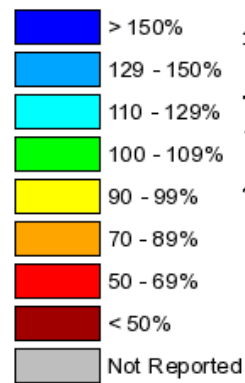


Average 1981-2010 — 2014 — 2013 —

Monthly Precipitation for May 2014

(Averaged by Hydrologic Unit)

% Average



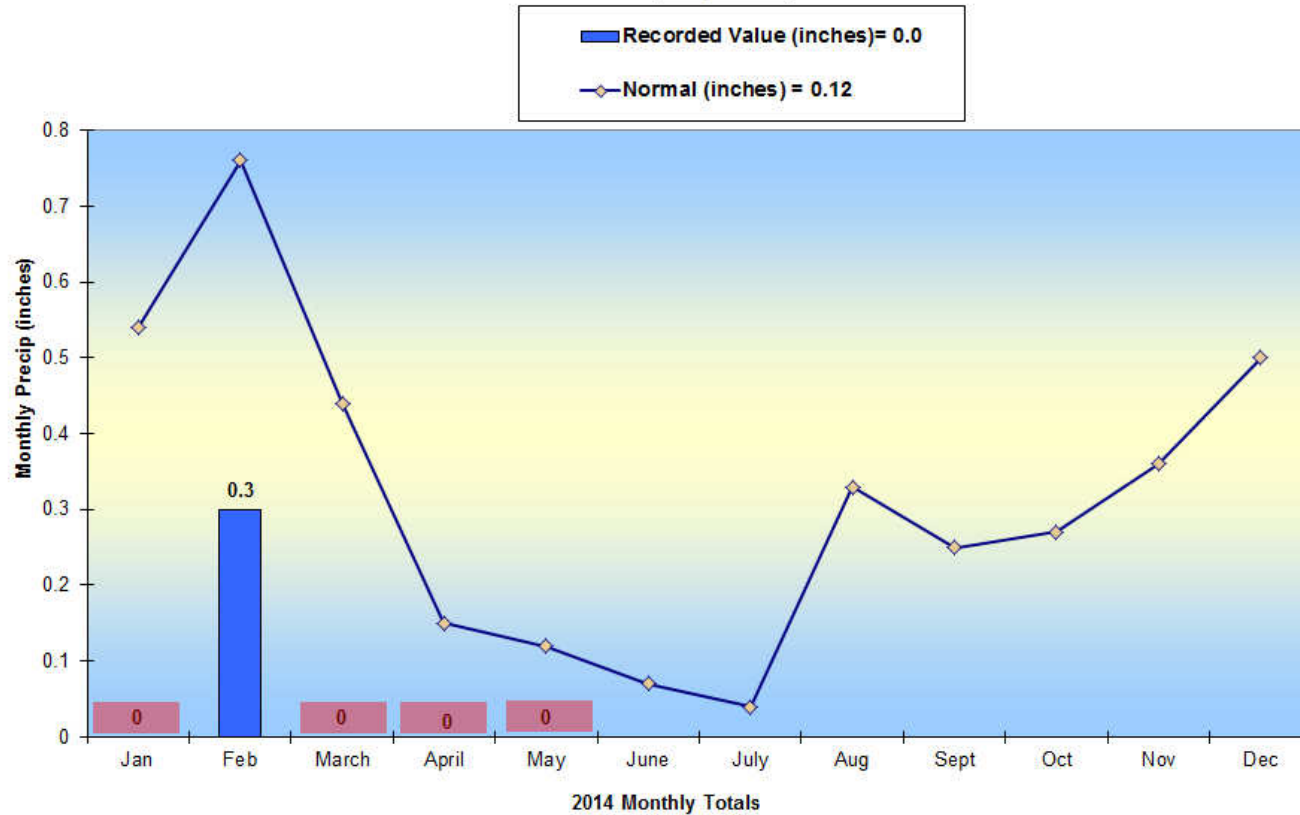
Prepared by
NOAA, National Weather Service
Colorado Basin River Forecast Center
Salt Lake City, Utah
www.cbrfc.noaa.gov

Monthly Precipitation, Las Vegas, NV

As of May 31, 2014

Record of Precipitation at McCarran International Airport, Las Vegas, NV

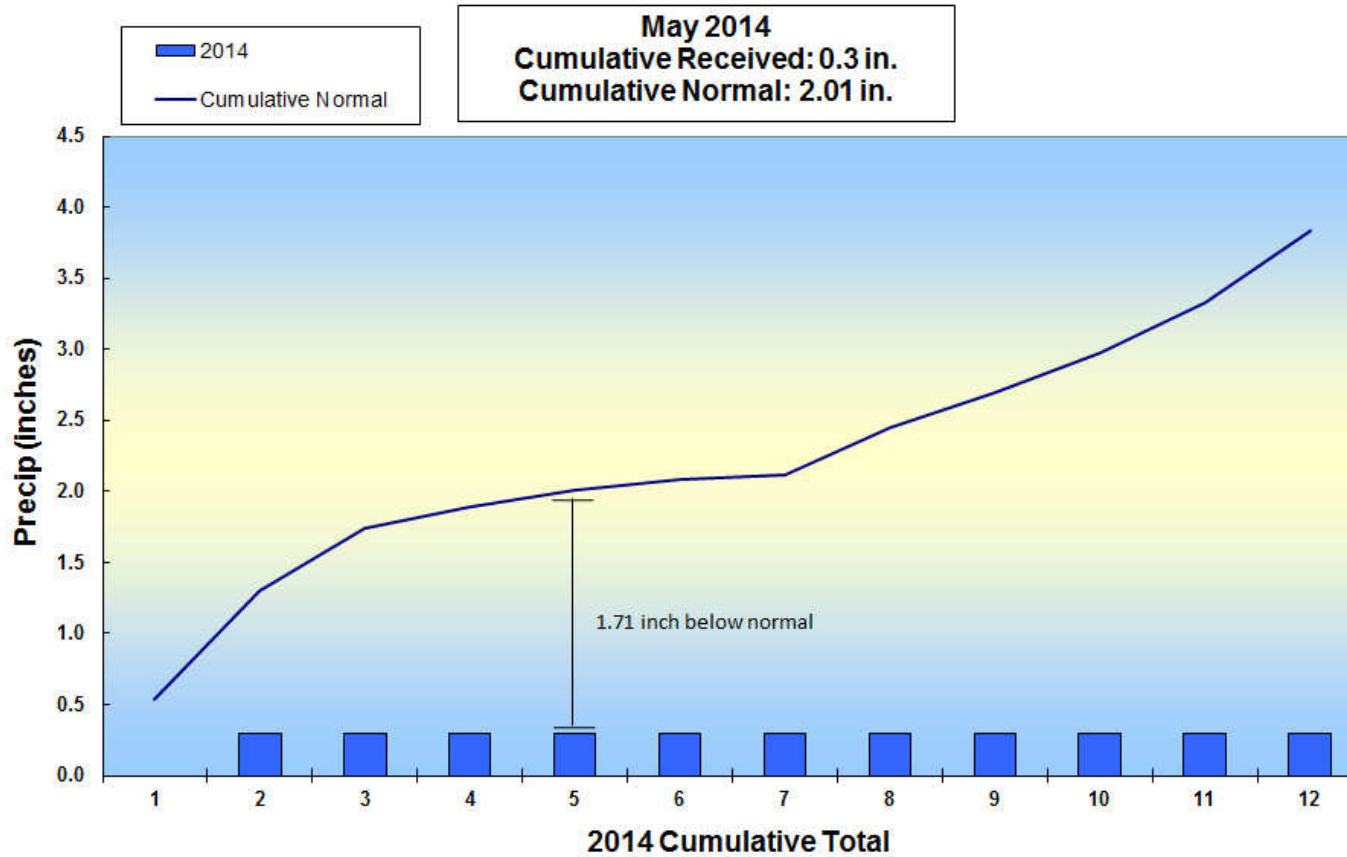
May 2014



Cumulative Precipitation, Las Vegas, NV

As of May 31, 2014

Record of Precipitation at McCarran International Airport, Las Vegas, NV



Water Use in Southern Nevada



Water Use in Southern Nevada

January – April 2014

2014*: Consumptive Use = 51,007

CR Water Banked = 0

51,007

2013*: Consumptive Use = 53,482

CR Water Banked = 0

53,482

Difference = - 2,475 af

*Subject to final accounting.



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